NORTECH DETECTION

Vehicle ID Transmitter and Receiver

TRACK 100

TRACK 100 TRANSMITTER

TRACK 100 RECEIVER

Track 100 is a compact vehicle identification system designed for the control of moving vehicles.

The transmitter is a vehicle battery powered device that is fitted to the undercarriage of the vehicle. The receiver is connected to a conventional inductive loop buried below the roadway surface.

Energy transfer from the transmitter is by inductive (transformer) action. The transmitter emits a low power signal that is received and verified by the receiver, which responds with a control output

The system allows for the positive identification of vehicles fitted with the identification device and the receiver ignores unequipped vehicles.

The output of the receiver is used to automatically open a control barrier, or gate or to implement priority traffic control

PART NUMBERS

436FT0100	T100 Transmitter	11- 40V DC
436FT0102	Track 100 Receiver	240V AC

APPLICATIONS

- Road Traffic Priority applications
  Emergency vehicle priority at traffic intersections, tolls, and similar.
- Selective Access control applications
  VIP Car park access, rising bollards or other selectively restricted areas
- Industrial Automation applications
  Fleet tracking
  Automation of loading processes

FEATURES

Reliability:

Track 100 has been tested to speeds up to 140km/h, proving reliable operation at high and low speeds.

All vehicles:

Track 100 is suitable for all sizes of vehicles from fork-lifts to heavy articulated vehicles. The receiver operates to a distance of 1.2 metres above the roadway.

Rugged:

The Track transmitter is totally sealed and suitable for the harshest environments.

Detector loop compatible:

The Track 100 Receiver uses a standard detection loop as an antenna and will function with most loops installed for loop detectors.

Secure code - The Track 100 Receiver responds to a unique modulated signal with no chance of false triggering by noise or other radio sources.

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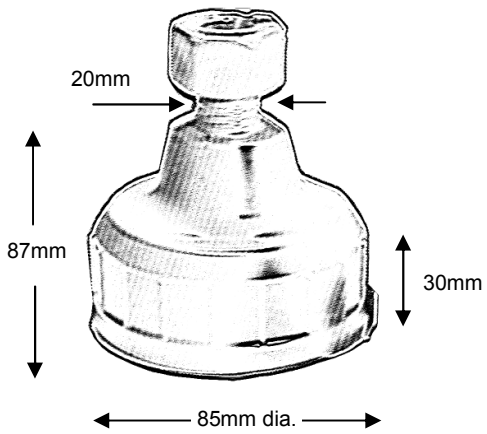
TECHNICAL DETAILS

TRACK 100

Transmitter

Transmitter Frequency:	133 kHz (carrier)
Modulation method:	FM Deviation ± 600 Hz
Coupling to Rx antenna:	Inductive transformer action
Reading height:	0.1 → 1.2 metres within 30° of horizontal
Harmonic Content:	2nd = - 60dBc 3rd = - 48dBc 4th = - 86dBc 5th = - 57dBc >6th = -<60dBc
No. of Codes:	1 (one) Code 1 = 1847Hz
Power:	11 to 40V DC @ 10ma max.
Mechanical Data:	Transmitter is cone shaped Base diameter = 85 mm Height of cone = 87 mm
Mounting:	Single bolt mounting 20mm
Material:	Polypropylene - injection moulded
Cable:	2 core - 1.5 metres length
Operating temperature:	-10°C to +70°C



Receiver

Front Panel indications:	Green LED : Power on Red LED : "Detect" - transmitter detected Red LEDs : "Code" - Valid code detected
Front Panel controls:	Sensitivity selector MIN - MED - MAX
Demodulation method:	Phase locked loop demodulator
Transient protection:	Loop isolation transformer and Diode clamping
Antenna:	Standard Induction detector loop 10 µH to 1000µH *(Does not "share" loop with a Vehicle detector)*
Loop Feeder:	Maximum 300 metres Twisted pair cable, 0.5mm square cross section, copper, multi strand
Output Relay:	N/O Relay Contact pair 6 A Rated at 230V AC
Output duration:	Presence - output is maintained as long as transmitter is present. 1 second turn-off delay to prevent s spurious signals as transmitter traverses nulls
Power:	230 / 240 V AC Mains input 2.5 VA max
Size of Housing:	113 mm (H) X 56mm (W) X 132mm (L) - excluding mating connectors
Mounting:	Free standing shelf mount
Connector:	11 Pin loop detector format connector Mains - 3 Pin VDE plug
Operating temperature:	-10°C to +70°C

ADDITIONAL ITEMS

VDE Mains lead	supplied
11 Pin wiring harness (1.5 metres)	supplied

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VEHICLE ID